

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	530	351

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# Keratinocyte Derived Interferon

1 CCA CGC GTC CGG GAT TTT TTA GCT TGC AAA AAA AAT GAG CAC CAA ACC TGA TAT GAT TCA 60  
1 M S T K P D M I Q 9

61 AAA GTG TTT GTG GCT TGA GAT CCT TAT GGG TAT ATT CAT TGC TGG CAC CCT ATC CCT GGA 120  
10 K C L W L E I L M G I F I A G T L S L D 29

121 CTG TAA CTT ACT GAA CGT TCA CCT GAG AAG AGT CAC CTG GCA AAA TCT GAG ACA TCT GAG 180  
30 C N L L N V H L R R V T W Q N L R H L S 49

181 TAG TAT GAG CAA TTC ATT TCC TGT AGA ATG TCT ACG AGA AAA CAT AGC TTT TGA GTT GCC 240  
50 S M S N S F P V E C L R E N I A F E L P 69

241 CCA AGA GTT TCT GCA ATA CAC CCA ACC TAT GAA GAG GGA CAT CAA GAA GGC CTT CTA TGA 300  
70 Q E F L Q Y T Q P M K R D I K K A F Y E 89

301 AAT GTC CCT ACA GGC CTT CAA CAT CTT CAG CCA ACA CAC CTT CAA ATA TTG GAA AGA GAG 360  
90 M S L Q A F N I F S Q H T F K Y W K E R 109

361 ACA CCT CAA ACA AAT CCA AAT AGG ACT TGA TCA GCA AGC AGA GTA CCT GAA CCA ATG CTT 420  
110 H L K Q I Q I G L D Q Q A E Y L N Q C L 129

421 GGA GGA AGA CGA GAA TGA AAA TGA AGA CAT GAA AGA AAT GAA AGA GAA TGA GAT GAA ACC 480  
130 E E D E N E N E D M K E M K E N E M K P 149

481 CTC AGA AGC CAG GGT CCC CCA GCT GAG CAG CCT GGA ACT GAG GAG ATA TTT CCA CAG GAT 540  
150 S E A R V P Q L S S L E L R R Y F H R I 169

541 AGA CAA TTT CCT GAA AGA AAA GAA ATA CAG TGA CTG TGC CTG GGA GAT TGT CCG AGT GGA 600  
170 D N F L K E K K Y S D C A W E I V R V E 189

601 AAT CAG AAG ATG TTT GTA TTA CTT TTA CAA ATT TAC AGC TCT ATT CAG GAG GAA ATA AGA 660  
190 I R R C L Y Y F Y K F T A L F R R K \* 207

661 ATC ATC TAC CTT CAA GCA AGA ATT AAC AGA GAT TGT GGC TAC GCA AAT GCA CCA AAA AAG 720  
721 GGT GAA ATA TAT CTG AAA TGT ACC TGG TTC TGC CCT TGG AAG CCA CTT CCT GCT CAT GCC 780  
781 ACT AAC AGC ATG CTG CCA AAC TGT TCA GAT TCA AGA TTA TTC CAA GCG CAG GGC CCA AAT 840  
841 GTT ATA GCC AAA GAA AGT CTT ATG ATA AAA GTG AGG CAA ATT TCA GCC AAG AAG TTA GAA 900  
901 GAG ATG TTT AAA AGA ACA AGA ACA AAT TGT GGA TCA TGG TAT ATG CAG GCT ATC AGC AGA 960  
961 AGG ATC AGA CAA TAA AAT GAG TTA GTG CAA ACC ATT TAG TAA AAA TAA CTA TCA GCA GAG 1020  
1021 TTG TTC CAG ATT AAA AAT AGT ACT ACA AGC TTG TAA AGG AGT TAG GAC ATG CAA GCT ACT 1080  
1081 GAG CAT AAA ATA TAT ACT TGC TAT TTT TCA TGA CTT TCT CTA ATA AAG TCT TTG ACT GTT 1140  
1141 CTC TCT AAT AAA AAA AAA AAA AAA AAA AAA 1170

FIG. 1

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
RAFTSMAN	530	357

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HKAPI15	10	KCLWLEILMGIFIAG...TSLDCNLLNVH..LRRVTWQNLRLHLSSMSNS	54
		.. :::  :::: .   ::  .    .   :  :::	
INF-omega	1	MALLFPLLAALVMTSYSPVGSGLCDLPQNHGLLSRNTLVLLHQMRIS..	48
HKAPI15	55	FPVECLRENIAFELPQEFQYTPMKRDIKKAFYEMSLQAFNIF.SQHTF	103
		.   :: .   :  :: .     .:::     ::  :::	
INF-omega	49	.PFLCLKDRRDFRFPQEMVKGSQQLQKAHVMSVLHEMLQQIFSLFHTERS	97
HKAPI15	104	KYWKERHLKQIQIGLDQQAAYLNQCLEEDENENEDMKEMKENEMKPSEAR	153
		.  .::: .    :.::    : . . .::	
INF-omega	98	AAWNMTLLDQLHTELHQQLQHLETCLLQVVGESESAGAISS.....	138
HKAPI15	154	VPQLSSLELRRYFHRIDNFLKEKKYSDCAWEIVRVEIRRCLYYFYKFTAL	203
		.. .     :   :         :   :   :: : . .	
INF-omega	139	....PALTLRRYFQGIRVYLKEKKYSDCAWEVVRMEIMKSLFLSTNMQER	184
HKAPI15	204	FRRK	207
		: .	
INF-omega	185	LRSK	188

FIG. 2

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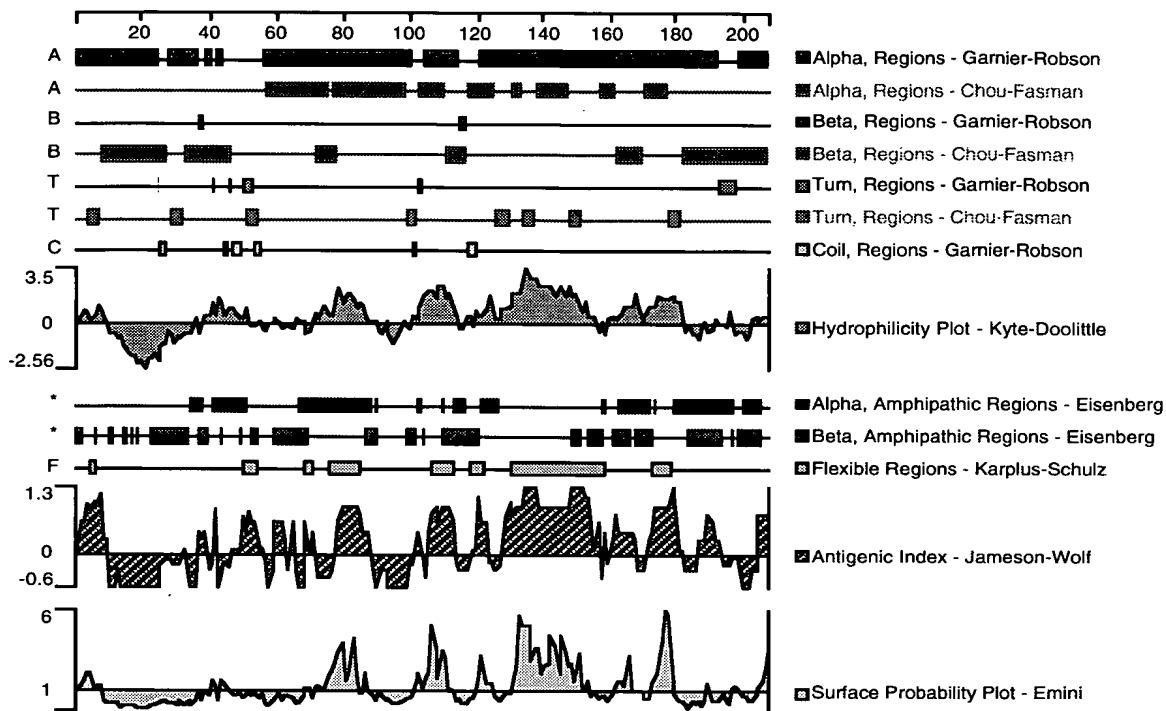


FIG. 3

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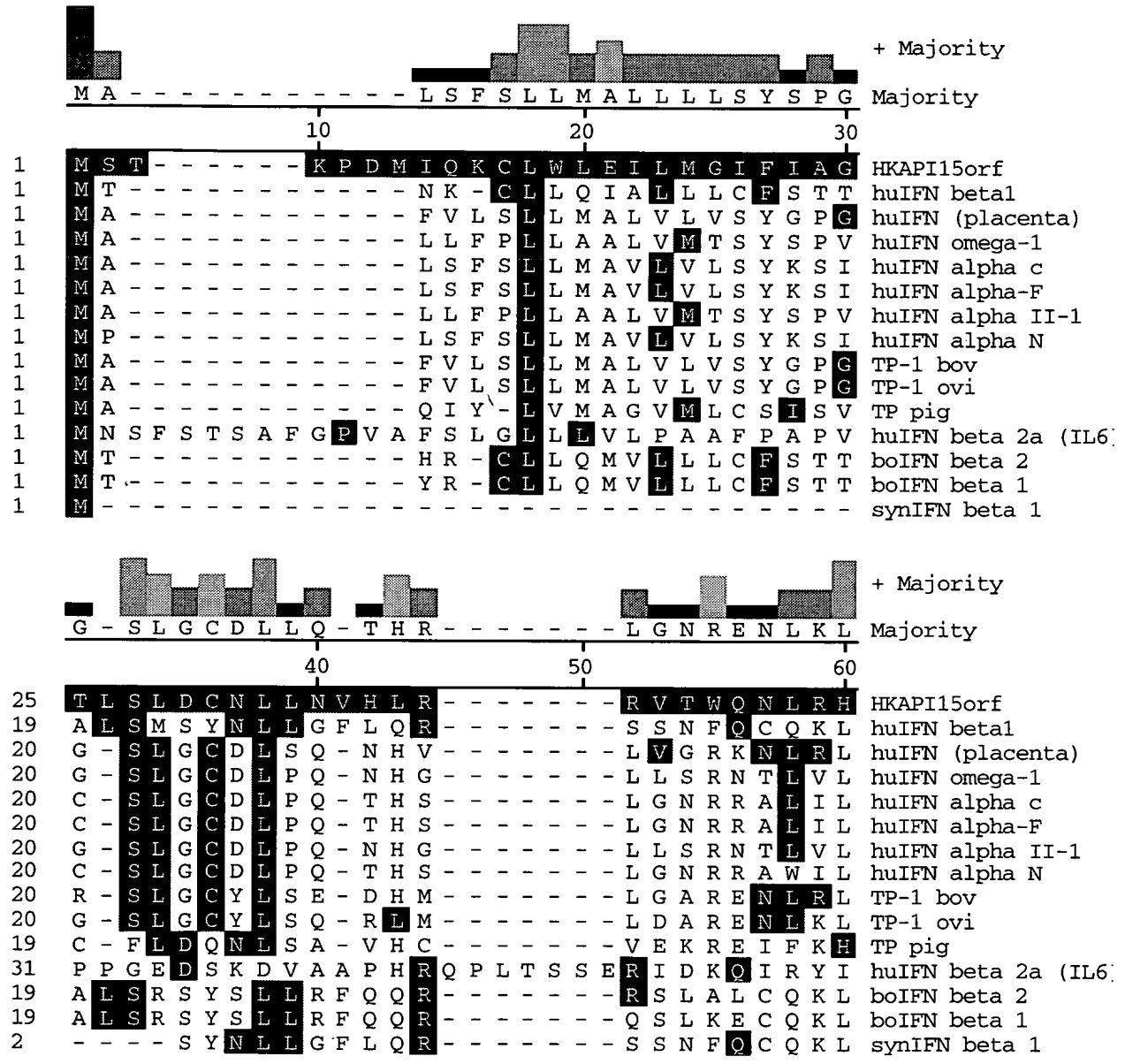


FIG. 4A

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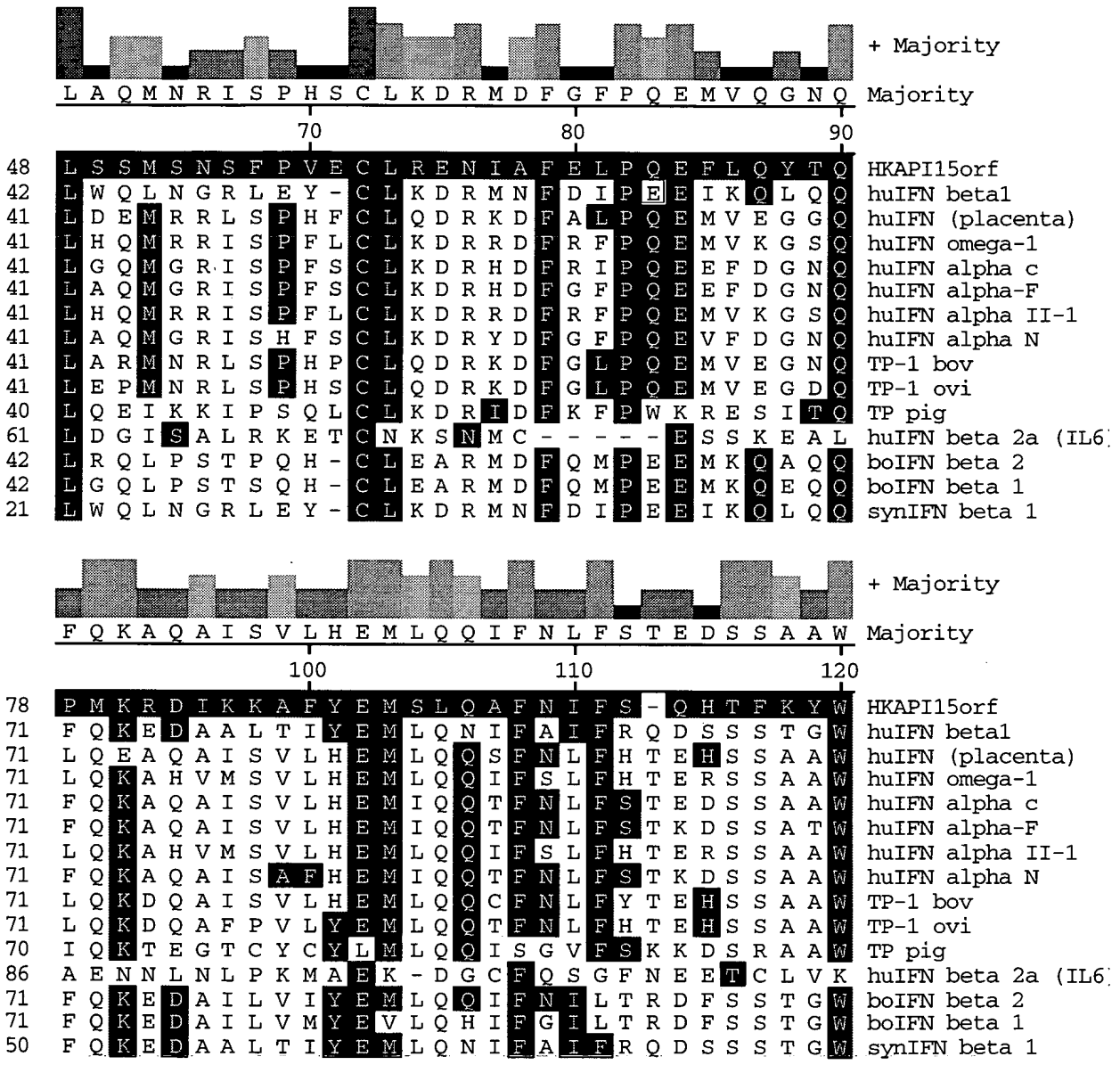


FIG. 4B

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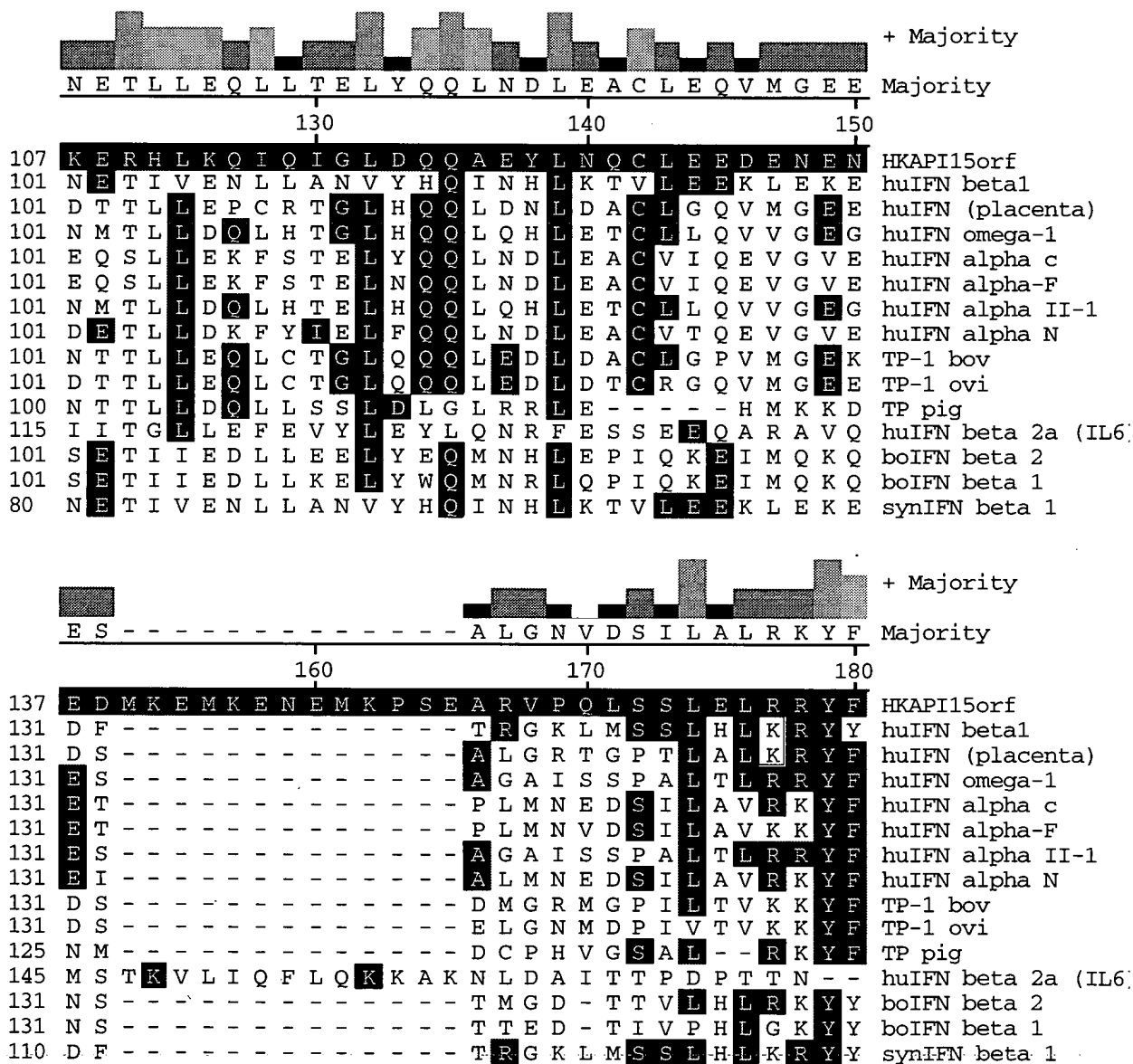


FIG. 4C

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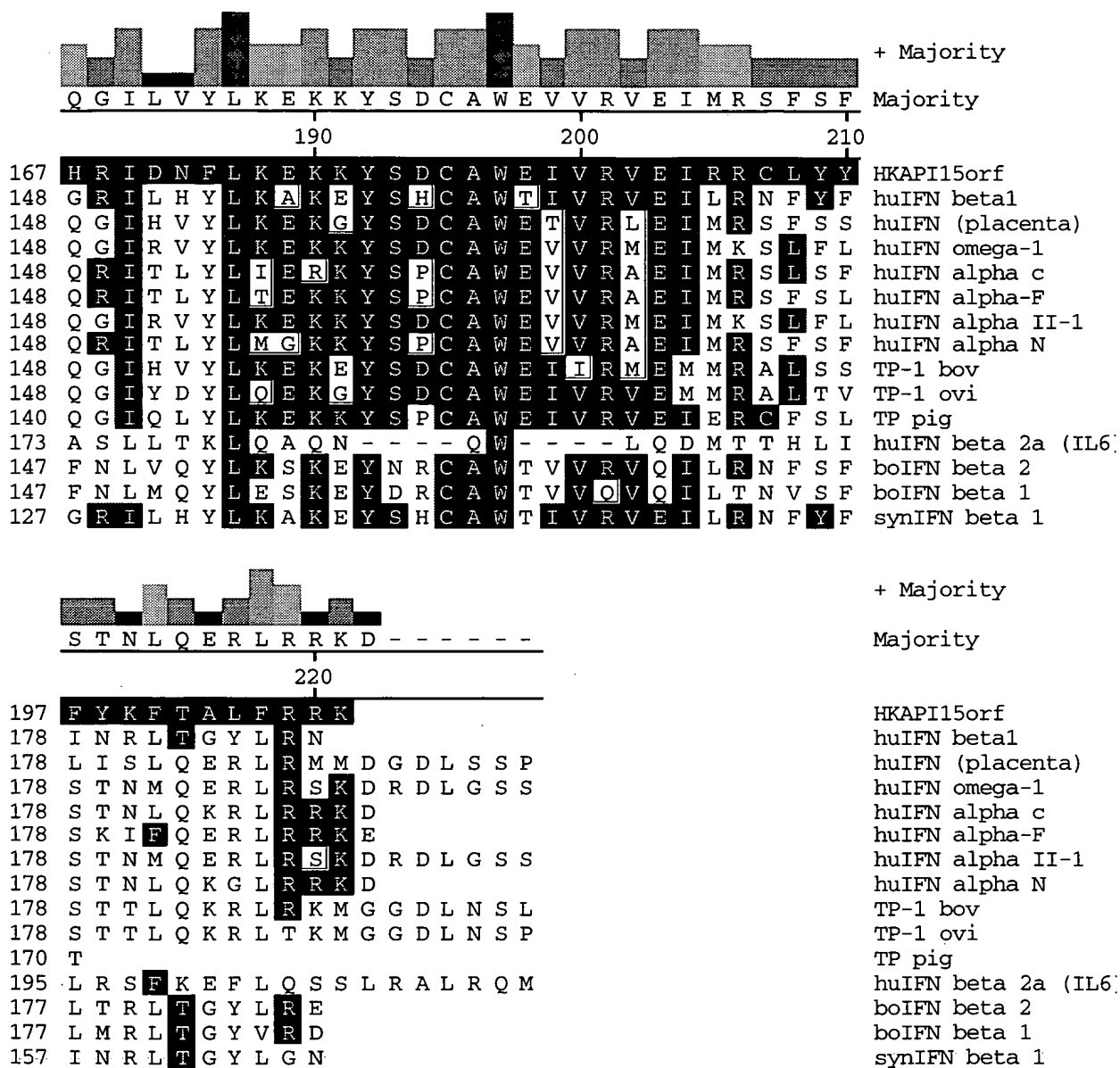


FIG. 4D

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      10      20      30      40
1  CTGGACTGTAACTTACTGAAACGTTTCACTTGAGAAAGAGTCA wt KDI orf
1  CTGGAFTGCAACCTGCTGAAACGTTTCACTTGCGTCTGCGGTCA s KDI orf

      50      60      70      80
41 CCTGGCAAATACTGAGACATCTGAGTAGTATGAGCAATTC wt KDI orf
41 CCTGGCAAGAACTGCGCTCACTGAGCTCTATATGAGCAACTC s KDI orf

      90     100     110     120
81 ATTTCTCTGTAGAAATGTCCTACGAGAAACATAGCTTTTGAAG wt KDI orf
81 CTTCTCCCGGTGTGAGCTGCTCTGCGTGAACAAACATCGCGCTTTTGAAG s KDI orf

     130     140     150     160
121 TTGCCCCCAAGAGTTTCTGCAATACACCCCAACCTATGAAGAA wt KDI orf
121 CTGCCCGCAAGAATTCTGCAATACACCCCAAGCCGATGAAGAAC s KDI orf

     170     180     190     200
161 GGGACATCAAGAAGGCTTCTATGAAATGTCCCTACAGGC wt KDI orf
161 GTGATATCAAGAAAGCGTTTCTAGAAATGTCCCTGACAGGC s KDI orf

     210     220     230     240
201 CTTCAACATCTTTCAGCCAAACACACCTTCAAATAATTGGAAA wt KDI orf
201 GTTCAACATCTTTCAGCCAGCACACCTTCAAATACTGGAAA s KDI orf

     250     260     270     280
241 GAGAGACACCTCAAACAATCCAAATAGGACTTGATCAGC wt KDI orf
241 GAACGTCACCTCAAAACAGATCCAATCGGTCTTGATCAGC s KDI orf

     290     300     310     320
281 AAGCAGAGTACCTGAACCAATGCTTGGAGGAAGACGAGAA wt KDI orf
281 AAGCAGAAATACCTGAACCAAGTGCCTGGAAGAAGACGAGAA s KDI orf

     330     340     350     360
321 TGAAAAATGAAGACATGAAAGAAATGAAAGAGAAATGAGATG wt KDI orf
321 CGAAAAACGAAGACATGAAAGAAATGAAAGAGAAACGAATG s KDI orf

     370     380     390     400
361 AAACCCCTCAGAAAGCCAGGGTCCCCCAGCTGAGCAGCCTGG wt KDI orf
361 AAACCCTCTGAAAGCGCGTGTCTCCGACAGCTGAGCTCTCTCTGG s KDI orf

     410     420     430     440
401 AACTGAGGAGATATTTCCACAGGATAGACAATTTCTCTGAA wt KDI orf
401 AACTGCGCGGTATACTTCCACGCGATCGACAACTTCTCTGAA s KDI orf

     450     460     470     480
441 AGAAAAGAAATACAGTGACTGTGCGCTGGGAGATTGTCTCGGA wt KDI orf
441 AGAAAAGAAATACTCTGACTGCGCGTGGGAATCTGTGCGCT s KDI orf

     490     500     510     520
481 GTGGAAATCAGAAAGATGTTTGTATTACTTTTACAAATTTTA wt KDI orf
481 GTGGAAATCGCGCGGTGTGTGTACTTCTTACAAATTTCA s KDI orf

     530     540
521 CAGCTCTATTTCAGGAGGAAA wt KDI orf
521 CCGCTCTGTCTCGTCTGCAAA s KDI orf

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FIG. 5

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	10	20	30	40	50	
1	-	CDLPQTHS	-	LGSRR	TLMLLAQMRKISLFS	CLKDRHDFGFPQEEF-GNQ INA2
1	M	SYNLLGFLQ	RSSNF	QCQKLLWQL	NGRLEY-	CLKDRMNFDPPEIKQLQQ INB
1	L	DCNLLNVHL	RRVTW	QNLRLHLS	SSMSNSFPVE	CLRENIAFELPQEFLLQYTQ L28 - Dloop
1	L	DCNLLNVHL	RRVTW	QNLRLHLS	SSMSNSFPVE	CLRENIAFELPQEFLLQYTQ L28 - Lloop
1	L	DCNLLNVHL	RRVTW	QNLRLHLS	SSMSNSFPVE	CLRENIAFELPQEFLLQYTQ L28 - Mloop
1	L	DCNLLNVHL	RRVTW	QNLRLHLS	SSMSNSFPVE	CLRENIAFELPQEFLLQYTQ L28 - Nloop
1	L	DCNLLNVHL	RRVTW	QNLRLHLS	SSMSNSFPVE	CLRENIAFELPQEFLLQYTQ L28
	60	70	80	90	100	
47	FQKAETIPVL	HEMIQQ	IFNLFST	KDSSAAW	DETLLDKFYTELYQQ	QLNDLE INA2
50	FQKEDAAAL	TIYEMLO	NIFAIFRQ	DSSTGWN	ETIVENLLANVYH	QINHLK INB
51	PMKR	DIKKAFYEM	SLQAFNIFS	Q-HTFKY	WKERHLKQIQIGLD	QQAEYLN L28 - Dloop
51	PMKR	DIKKAFYEM	SLQAFNIFS	Q-HTFKY	WKERHLKQIQIGLD	QQAEYLN L28 - Lloop
51	PMKR	DIKKAFYEM	SLQAFNIFS	Q-HTFKY	WKERHLKQIQIGLD	QQAEYLN L28 - Mloop
51	PMKR	DIKKAFYEM	SLQAFNIFS	Q-HTFKY	WKERHLKQIQIGLD	QQAEYLN L28 - Nloop
51	PMKR	DIKKAFYEM	SLQAFNIFS	Q-HTFKY	WKERHLKQIQIGLD	QQAEYLN L28
	110	120	130	140	150	
97	ACVIQGVG	-	VTETPLMKED	-	-	SILAVRKYFQRITLYLKEK INA2
100	TVLEEKLE	-	KEDPTRGKLM	-	-	SSLHLKRYYGRI LHYLKAK INB
100	Q	CLEEDENENED	DMKEMKED	-	-	SSLEELRRYFHRI DNFLKEK L28 - Dloop
100	Q	CLEEDENENED	DMKEMKE-	-	-	SSLEELRRYFHRI DNFLKEK L28 - Lloop
100	Q	CLEEDENENED	DMKEMKEM	-	-	SSLEELRRYFHRI DNFLKEK L28 - Mloop
100	Q	CLEEDENENED	DMKEMKEN	-	-	SSLEELRRYFHRI DNFLKEK L28 - Nloop
100	Q	CLEEDENENED	DMKEMKENEMKPS	EARVPQL	SSLEELRRYFHRI DNFLKEK	L28
	160	170	180			
134	KYSPCAWEVVR	AEIMRSFSL	STNLQESLRSKE			INA2
137	EYSHCAWTIVR	VEILRNFYF	INRLTGYLRN			INB
138	KYSDCAWEIVR	VEIRCLY	YFYKFTALFRRK			L28 - Dloop
138	KYSDCAWEIVR	VEIRCLY	YFYKFTALFRRK			L28 - Lloop
138	KYSDCAWEIVR	VEIRCLY	YFYKFTALFRRK			L28 - Mloop
138	KYSDCAWEIVR	VEIRCLY	YFYKFTALFRRK			L28 - Nloop
150	KYSDCAWEIVR	VEIRCLY	YFYKFTALFRRK			L28

FIG. 6